

# M122 - 1U RUGGED RACKMOUNT SERVER

## *Rugged System Built for Extreme Environments*

The rugged M122 is a short-depth 1U rackmount server built for applications that require speed, reliability, and security. The high-performance M122 is designed to save space without sacrificing power thanks to our SWaP-Optimized design.



## CUSTOM BUILT RUGGED SYSTEM

### **6X HOT-SWAP DRIVE**

- ▶ ALL-ALUMINUM CHASSIS
- ▶ LATEST NVIDIA® TECHNOLOGY
- ▶ LATEST INTEL® TECHNOLOGY
- ▶ MIL-SPEC TESTED
- ▶ BUILT IN THE USA



Built with ultra-sturdy all-aluminum chassis, this rugged computer features six shock mounted hot-swap drives and supports the latest Intel® Quad and Hexa-Core CPUs while providing one full-height PCIe slot on the rear of the chassis. The rugged M122 includes the latest single-stack NVIDIA® Tesla® GPU Card which provides our customers with high-performance data analytics and scientific computing abilities.

**For more info on the M122 1U server, please visit [www.core-systems.com](http://www.core-systems.com)**

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## TECHNICAL SPECIFICATIONS

|                 |                                                                                                                          |
|-----------------|--------------------------------------------------------------------------------------------------------------------------|
| MECHANICAL      | Height - 1.75 in (4.45 cm), Width - 17.75 in (45.08 cm), Depth - 22.00 in (55.8 cm)<br>Weight - 15-21 lbs (6.80-9.52 kg) |
| CPU             | Latest Dual Intel® Xeon® CPUs                                                                                            |
| EXPANSION SLOTS | One (1) full-height, 3/4 length slots<br>Multiple PCIe slot combinations are available                                   |
| EXTERNAL BAYS   | 6x removable hot-swap SATA or SAS 2.5 or 3.5 HDDs                                                                        |
| COOLING         | Thermostatically controlled via motherboard                                                                              |
| POWER SUPPLY    | Option 1- (std) 600W AC power supply<br>Option 2- 28VDC power supply                                                     |
| SYSTEM BOARD    | Extended ATX Motherboard                                                                                                 |
| CHASSIS TYPE    | Lightweight aluminum chassis                                                                                             |

## ENVIRONMENTAL SPECIFICATIONS

|                   |                                                                                                            |
|-------------------|------------------------------------------------------------------------------------------------------------|
| OPERATIONAL TEMP. | MIL-STD-810F, Method 501.5 Procedures I/II; -15°C to +55°C                                                 |
| STORAGE TEMP.     | MIL-STD-810F, Method 501.5, Procedures I/II; -55°C to +85°C                                                |
| HUMIDITY          | MIL-STD-810F, Method 507.4; 48 Hour, 95% RH 40-65C (with conformal coat option)                            |
| ALTITUDE          | MIL-STD-810F, Method 500.4; 12,500ft operation with 40,000ft transport                                     |
| VIBRATION         | MIL-STD-810G, Method 514.6 Procedure I; 4.43 GRMS, 5-20000Hz, 60min/axis                                   |
| SHOCK             | MIL-STD-810G, Method 516.6, Procedures I/V; 20g, 11msec - functional shock; 40g, 11msec crash hazard shock |
| OTHER             | MIL-STD-461F CE & RE emissions (with 461 filter option)                                                    |

### ABOUT US

Core Systems is a premier manufacturer of best-in-class rugged computers and rugged displays. We design and manufacture all of our products in Poway, California. Our 65,000+ square foot facility features onsite engineering, assembly, and testing along with a complete metal fabrication and machining facility. Our wide range of rugged products are deployed in ground vehicles, aircraft, and maritime installations worldwide.